

IN THE SPECIFICATIONS

[0030] An important feature of the apparatus of the present invention is a common bus, designated generally as 260. The various processors (~~251 and 254 in Fig. 4~~ 251 and 254 in Fig. 3) output their processed data to the bus. The bus is also connected to a telemetry device (not shown) at a suitable location for two-way communication with the surface controller and receiving data from the surface. In an alternate embodiment of the present invention, two-way communication between the bottom hole assembly and the surface controller may be accomplished using flowable devices carried by the drilling fluid. Such flowable devices are taught in U.S. Patent Application Ser. No. 09/578,623 (~~now U.S. Patent \*\*\*\*\*~~) (now U.S. Patent 6,443,228) of Aronstam et al, having the same assignee as the present application and the contents of which are fully incorporated herein by reference.